

Message Text

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44

ACTION OES-05

INFO OCT-01 EUR-12 ISO-00 ERDA-07 ERDE-00 FEAE-00 EB-07

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FOR OES/SCI/SEP AND EUR/SOV AND ERDA

E.O. 11652: N/A

TAGS: ENRG TECH UR

SUBJECT: US-USSR ENERGY AGREEMENT: SUPERCONDUCTING POWER
TRANSMISSION

REF: MOSCOW 3186

1. EMBASSY HAS RECEIVED TWO ENGLISH LANGUAGE PROGRAMS.
ONE EACH FOR THE U.S. DELEGATION ON (A) HIGH VOLTAGE
TECHNOLOGY AND (B) HEAT TRANSFER AND FLUID FLOW.

2. THE PROGRAM FOR THE HIGH VOLTAGE TECHNOLOGY
DELEGATION IS AS FOLLOWS:
MARCH 23 ARRIVAL IN MOSCOW, AEROFLOT 581 AT 1725.
ACCOMMODATIONS AT HOTEL "SPUTNIK".
MARCH 24 1000-GENERAL DISCUSSION OF THE SCHEDULE AT
KRZHIZHANOVSKIY POWER ENGINEERING INSTITUTE;
LABORATORY OF HIGH VOLTAGE GAS DISCHARGE AND
LIGHTENING PROTECTION. REPORTS ON "INVESTI-
GATION OF HIGH VOLTAGE DISCHARGE UNDER NORMAL
ATMOSPHERIC CONDITIONS" AND "EXPERIMENTAL
INSTALLATIONS FOR STUDYING DIELECTRICS AT
CRYOGENIC TEMPERATURES". QUESTIONS & ANSWERS.
MARCH 25 FAMILIARIZATION WITH THE LABORATORY'S IN-
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STALLATIONS: EXPERIMENTAL HIGH VOLTAGE

CRYOSTATS, TEST BED, AUTOMATED MEASURING
COMPLEX. REPORT "RESULTS OF A STUDY ON
FLASHOVER VOLTAGES OF SOLID DIELECTRICS AT
LOW TEMPERATURES." QUESTIONS AND ANSWERS.
MARCH 26 DISCUSSION OF THE FIRST EXPERIMENT ON
FLASHOVER VOLTAGES IN FLUID HELIUM. REPORT
"RESULTS OF A STUDY ON COMPRESSED HELIUM
BREAKDOWN." QUESTIONS AND ANSWERS.
MARCH 27 PARTICIPATION IN THE FIRST EXPERIMENT.
REPORTS BY U.S. EXPERTS.
MARCH 28 DISCUSSION OF THE FIRST EXPERIMENT AND THE
SECOND ONE ON COMPRESSED HELIUM BREAKDOWN.
PREPARATIONS FOR THE SECOND EXPERIMENT.
MARCH 29 SIGHTSEEING, THEATERS.
MARCH 30 SIGHTSEEING.
MARCH 31 PRELIMINARY INFORMATION ON THE SECOND
EXPERIMENT. REPORTS BY U.S. EXPERTS.
PARTICIPATION IN THE SECOND EXPERIMENT.
APRIL 1 DISCUSSION OF THE SECOND EXPERIMENT. REPORT
"CORONA DISCHARGE AND HELIUM BREAKDOWN IN
EXCEEDINGLY NON-UNIFORM FIELD."
APRIL 2 DISCUSSION OF THE THIRD EXPERIMENT ON
PULSED VOLTAGE HELIUM BREAKDOWN.
PARTICIPATION IN THE EXPERIMENT.
APRIL 3 INFORMATION ON THE RESULTS OF THE THIRD EX-
PERIMENT. DISCUSSION OF THE JOINT EXPERIMENTS.
APRIL 4 EXCHANGE OF OPINIONS ON FUTURE RESEARCH WORK
IN THE U.S. AND USSR (WITH THE PARTICIPATION
OF EXPERTS FROM MOSCOW POWER INSTITUTE,
MOSENERGO, SIBERIAN POWER ENGINEERING INSTITUTE.)
APRIL 5 SIGHTSEEING. BANQUET.
APRIL 6 DEPARTURE OF U.S. EXPERTS.

3. THE PROGRAM FOR THE HEAT TRANSFER AND FLUID FLOW
DELEGATION IS AS FLOOWS:
MARHC 23 ARRIVAL IN MOSCOW BY AEROLFOT 581, 1725.
MARCH 24 GENERAL DISCUSSIONS OF THE SCHEDULE AT
KRZHIZHANOVSKIY POWER ENGINEERING INSTITUTE.
FAMILIARIZATION WITH INSTALLATIONS AT
CRYOGENICS AND FLUID FLOW AND HEAT TRANSFER
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LABORATORIES. DISCUSSION OF EXPERIMENTS.
MARCH 25 INVESTIGATION OF FLUID FLOW CHARACTERISTICS
ON A SIMULATING STAND. REPORTS: "PROBLEMS
OF FLUID FLOW AND HEAT TRANSFER IN SUPER-
CONDUCTING CABLES", "DEVELOPMENT OF
METHODS FOR STUDYING FLUID FLOW AND HEAT
TRANSFER WITH SINGLE PHASE FLUIDS IN THE
NEAR-CRITICAL REGION", "DEVELOPMENT OF AN

OPTICAL METHOD FOR STUDYING FLUID FLOW
CHARACTERISTICS OF LOW TEMPERATURE HELIUM
FLOW". QUESTIONS AND ANSWERS.
MARCH 26 INVESTIGATION OF HEAT TRANSFER WITH HELIUM
FLOW IN A THREE-PHASE SUPERCONDUCTING CABLE
MODEL (CRYOGENICS LABORATORY). REPORT
"METHOD OF EXPERIMENTAL STUDY OF FLUID
FLOW AND HEAT TRANSFER OF HELIUM IN
SUPERCRITICAL THERMODYNAMIC STATE".
"PROBLEMS OF INITIAL COOLDOWN OF SUPER-
CONDUCTING CABLES". DISCUSSION.
10:QP P.M. DEPARTURE FOR KHARKOV.
MARCH 27 8:37 A.M. ARRIVAL IN KHARKOV. PHYSICO-
TECHNICAL INSTITUTE OF LOW TEMPERATURES.
DISCUSSION OF THE SCHEDULE. FAMILIARIZATION
WITH THE WORK CONDUCTED AT THE INSTITUTE.
MARCH 28 VISIT TO LABORATORIES. DISCUSSION ON
FLUID FLOW AND HEAT TRANSFER.
MARCH 29 SIGHTSEEING, THEATERS.
MARCH 30 1:53 P.M. DEPARTURE FOR AND ARRIVAL IN MINSK.
MARCH 31 INSTITUTE OF HEAT AND MASS TRANSFER.
VISIT TO LABORATORY OF LOW TEMPERATURES.
APRIL 1 EXCHANGE OF OPINIONS ON FLUID FLOW AND
HEAT TRANSFER RESEARCH CONDUCTED AT THE
INSTITUTE AND IN THE U.S.
APRIL 2 INSTITUTE OF SOLID STATE PHYSICS AND SEMICONDUCTORS.
VISIT TO LABORATORIES. DISCUSSION OF
RESEARCH WORK ON HEAT TRANSFER.
22:22 P.M. DEPARTURE FOR MOSCOW.
APRIL 3 8:30 A.M. ARRIVAL IN MOSCOW. VISIT TO
KURCHATOV ATOMIC ENERGY INSTITUTE.
DISCUSSION.
APRIL 4 DISCUSSION OF THE JOINT EXPERIMENTS.
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EXCHANGE OF OPINIONS ON FUTURE RESEARCH
WORK IN THE U.S. AND USSR.
APRIL 5 SIGHTSEEING. BANQUET.
APRIL 6 DEPARTURE OF U.S. EXPERTS.
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Margaret P. Grafeld
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